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#### UNITED STATES DEPARTMENT OF AGRICULTURE Bureau of Agricultural Economics

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#### NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS

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# APPLE MANUFACTURES

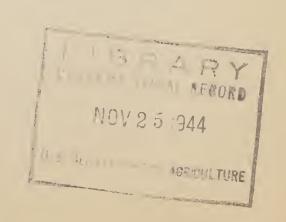
# THE USE OF APPLES IN CIDER WILLS,

# EVAPORATORS AND CANNERIES IN NEW YORK STATE

1937- 43

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Albany, New York May 1944



# APPLE MANUFACTURES - 1937-43

The relatively light apple crop of 1943 and high prices for fruit permitted close utilization of supplies. The total volume of apples processed in New York cider mills, evaporators and canneries from the 1943 crop, 5,609,000 bushels, was 29 percent below 1942, which is the highest in the 7 years of record. The gross farm value of these apples in 1943 was about \$5,721,000, or 44 percent above 1942.

As usual, cider mills processed more apples than other establishments, follow -ed closely by canneries, with evaporators trailing behind. In addition to cider, apple juice, canned apples and apple sauce, dried apples and chops, the standard products of the apple processing industries, substantial quantities of apples and apple sauce were preserved by freezing, while special dessert mixtures, mince meat and infant foods required substantial quantities of fruit. Dried skins, cores and pomace to be used mainly for pectin represented partial utilization of valuable material that would otherwise have been wasted.

The quantity of apples utilized in the processing establishments in New York in 1943 was larger than the total apple crop harvested in the commercial areas of any other states than Washington, California and Michigan.

Unused facilities available for processing of apples are indicated by the fact that there were listed as not operating in 1940, 1941, 1942 and 1943 the following: Cider mills, 197 in 1940, 161 in 1941, 230 in 1942 and 280 in 1943; evaporators, 38, 30, 26 and 39; establishments canning apples or carrying on similar processes, 13, 9, 10 and 10 respectively. In the main, the closed establishments were those having relatively small capacity and many of them were probably poorly equipped.

The totals of apples and products are believed comparably complete from year to year. In each year there have been a few establishments from which reports have not been available. In those cases, estimates on the best available basis have been included. Minor revisions for 1942 are included here.

The cooperation of the owners or operators of the establishments who furnished information concerning their own businesses is acknowledged with appreciation.

(The Bureau of Markets of the Department of Agriculture and Markets gave cooperation in obtaining reports. The compilations were made in the Bureau of Statistics.)

R. L. GILLETT, Director of Agricultural
Statistics and Agricultural
tural Statistician

Table 1.- Apples and apple products in cider mills, evaporators, and canneries, New York, 1937-43

	· ·				
Year	: Cider mills :	Evaporators :	Canneries :	Total 1	/
Establia	shments in operation	, Number			
1937	573	47	27	640	
1938	452	29	22	, 500	
1939	504	45	26	573	
1940	383	19	27	427	
1941	410	26	29	461	
1942	315 1	42 32	27	374	
1943	235	32	28	283	
Apples 1	received, net bushel	.5 2/			. 0
1937	. 4,434,300	1,284,800	1,873,100	7,592,200	\$ . I
1938	2,621,800	373,900	866,200	3,861,900	
1939	4,772,900	1,207,100	2,381,900	8,361,900	
1940	2,309,000	199;400	1,686,600	4,195,000	
1941	3,769,000	536,700	3,022,600	7,328,300	
1942	3,578,700	1,120,800	3,208,000	7,907,500	
1943	2,739,500	502,400	2,367,100	5,609,000	
-7.42		-	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Quantity	y of apples (include	ed above) from (	other States, 1	oushels	
1937	\$9,600	bann	1,000	10,600	
1938	10,300	480	200	10,500	
1939	6,800	4600	° 600	7,400	
1940	5,800	мр	4,700	10,500	
1941	11,700	th and	5,800	17,500	
1942	26,500	700	34,800	62,000	
1943	95,700	water	2,750	98,450	
4	* * * * * * * * * * * * * * * * * * * *	7.00 77	0.1		
	price paid for appl		contracts contracts.	# 00	•
1937	\$.22	\$ . 33	\$.43	\$.29	
1938	.26	، 28	.58	• 34	
1939		.27	•43	.26	
1940		.29	.75	.47	
1941		. 57		.72	
1942		1.46	1.59	1.05	
1943	1.13	2,86	3.12	2.12	
Average	date operations sta			(1)	
1000		Start Sto	p Start	Stop	
1937					
	Oct. 4 Nov. 30				
	Oct. 2 Dec. 6				
1940	Oct. 7 Dec. 7				
	Oct. 4 Dec. 6				
	Oct. 5 Dec. 4				
1943	Oct. 7 Dec. 2	CUCT. 6 Nor	7. 30 Oct. 10	Dec. Ju	

Table 1.- Apples and apple products in cider mills, evaporators and canneries, New York, 1937-43 - Continued

37	Page	. 0.	m i s
Year : Cider mills :	Evaporators	: Canneries	: Total
Apples used for principal purp Used for cider, bushels 5/	oses:	1	t.
1937 4,434,300	_	66,700	4,501,000
1938 2,621,800	~	9,000	2,630,800
1939 4,772,900	_	278,900	5,051,800
1940 2,309,000	_	69,100	2,378,100
1941 3,769,000		5,000	3,774,000
1942 3,578,700	_	10,000	3,588,700
· · · · · · · · · · · · · · · · · · ·	_	119,800	2,859,700
1943 2,739,900	_	117,000	2,077,100
Apples used for principal purp	oses:		· ·
Used for drying, bushels			
1937 -	1,284,800	-	1,284,800
1938 -	373,900	-	373,900
1939 -	1,207,100	on.	1,207,100
1940 -	199,400	_	199,400
1941 -	536,700	-	536,700
1942 -	1,099,900	_	1,099,900
1943 -	502,400	400	502,400
±/42	, , , , , , , , , , , , , , , , , , ,		70.03400
Used for canned apples and	apple sauce,	bushels	
1937 -		1,657,700	1,657,700
1938 -	-	790,100	790,100
1939 -	_	1,987,800	1,987,800
1940 -	_	1,351,500	1,351,500
1941 -	~	2,580,600	2,580,600
1942 -	-	2,751,700	2,751,700
1943 -	-	1,865,400	1,865,400
Used for other factory pro	ducts, bushels		71.0.000
1937 -	-	148,700	148,700
1938 -	-	67,100	67,100
1939 -	•	115,200	115,200
1940 -		266,000	266,000
1941 -	emp	453,000	453,000
1942 -	CHIB	446,300	446,300
1943 <b>-</b>	-	381,900	381,900
Principal products made:			
Cider pressed, gallons 5/		252 600	10 017 100
1937 18,493,800	-	353,600	18,847,400
1938 10,662,000	-	146,000	10,808,000
1939 19,949,600	-	1,707,000	21,656,600
1940 9,336,400	-	627,600	9,964,000
1941 16,599,100	-	412,000	17,011,100
1942 16,575,400	-	311,600	16,887,000
1943 12,290,900	<b>an</b>	1,346,800	13,637,700

Table 1 .- Apples and apple products in cider mills, evaporators and canneries, New York, 1937-43 - Concluded

	•			
Year	: Cider mills :	Evaporators	: Canneries :	Total
Principal	products made:			:
Apple	juice, gallons 5/,	6/		
1940	2,665,300	NAP.	695,000	3,360,300
1941	2,814,400	-	806,400	3,620,800
1942	3,336,500		348,500	3,685,000
1943	2,905,700		550,400	3,456,100
-/-/	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, , , , , , , , , , , , , , , , , , ,	29,472,424
Dried	apples, pounds			
1937		7,101,200	***	7,101,200
1938	_	2,147,700		2,147,700
1939	-	7,076,700	-	7,076,700
1940		869,000	_	869,000
1941	-	3,056,700	_	3,056,700
	~	6 172 500		
1942	-	6,473,500	•	6,473,500
1943	43	2,736,200	-	2,736,200
Daiod	nonla abana nound			
1937	apple chops, pound	727,000		727 000
	~			727,000
1938	-	192,300	••	192,300
1939	~	461,700	-	461,700
1940	~	469,400	<b>550</b>	469,400
1941	-	284,500	~	284,500
1942	Dec.	356,700	<b>***</b>	356,700
1943	~	233,400	***	233,400
D • 1	1-4		77	
To the second se	skins and cores, po	omace and waste	e, pounds 7/	0.110/_200
1937	Ф407	2,426,300	***	2,426,300
1938	-	104,000	áto áto	104,000
1939	~	612,000	-	612,000
1940	4461	454,200	-	454,200
1941	~	1,419,200	,	1,419,200
1942	-	3,587, <b>1</b> 00	•	3,587,100
1943	-	1,407,800	grap .	1,407,800
The second secon	d apples and apple s	sauce, quantity		
1937	and a	chie	1,657,700	1,657,700
1938	46.07	600	790,100	790,100
1939	CO	***	1,987,800	1,987,800
1940	-	-	1,351,500	1,351,500
1941	one one	**	2,580,600	2,580,600
1942	MOR	delle	2,751,700	2,751,700
1943	Chris		1,865,400	1,865,400
1/ In a	few cases operations	s of more than	one type were car	ried on in a given

1/ In a few cases operations of more than one type were carried on in a given establishment. The last column is the net number of establishments reporting, 7 joint operations having been noted in 1937, 3 in 1938, 2 in 1939, 4 in 1940, 4 in 1941, 10 in 1942 and 12 in 1943. "Custom" and "commercial"

mills are included.

#### Footnotes Table 1 - Concluded

- 2/ Net receipts. Apples received at canneries and reported transferred to cider mills are included in cider mill receipts and not in cannery receipts. Of these there were reported, in bushels: 1937-20,100; 1938-8,100; 1939-35,600; 1940-28,700; 1941-65,600; 1942-94,100; 1943-140,900; part of the apples were reported as bushels and part as pounds. One bushel assumed to equal 48 pounds. All of the data relate to the crop produced in the year indicated even though processing frequently runs over into the next calendar year.
- 3/ These prices are the average of "average or prevailing prices" as reported, excluding cases where the special uses called for unusual grades, etc. and weighted by the importance of the various districts.
- Includes averages of usual operations. In a number of cases, intermittent or unusual operations extended well into the following spring and are not included here. There is considerable difference in the length of the processing season at the various plants and in different parts of the State.
- Includes cider pressed from apple skins and cores. The quantity of apples used for cider in cider mills includes those used for "apple juice" in those establishments. No separate data were secured prior to 1940 when approximately 2,665,300 gallons of cider were sold as "apple juice", this term being equivalent to "sweet cider" in many cases, and about 29 percent of the total cider pressed in cider mills. In canneries, the "apple juice" first reported in 1940, is not included in cider pressed in those mills. In earlier years, apples used in canneries for "apple juice" were generally reported as used for products other than canned apples, apple sauce and cider.
- 6/ Including "apple juice" at canning factories, but not in cider mills where apples so used are included with those for cider. Small amounts of loss and shrinkage are included. Among other products in which these apples are used are jelly, apple butter, mincemeat, food for infants and frozen apples. In 1941 and 1943, some apples were sorted out and sold to packers without processing.
- 7/ In 1941, dried skins and cores amounted to 595,300 pounds and dried pomace 823,900 pounds; in 1942, dried skins and cores 1,461,100 pounds and dried pomace 2,126,000 pounds; in 1943 dried skins and cores 649,800 pounds and 758,000 pounds of dried pomace.
- Ontario Dist. Niagara, Orleans, Monroe, Wayne
  Mid-western Dist. Erie, Genesee, Wyoming, Livingston, Ontario, Yates,
  Seneca, Tompkins

Hudson Dist. - Columbia, Dutchess, Putnam, Westchester, Greene, Ulster, Orange, Rockland

Champlain Dist. - Clinton, Essex

Other Dist. - All counties not included above.

The districts used in the tables in this publication include counties as above.

Table 2.- Apples received at manufacturing plants, by districts, crops of 1937-43 1/

District	: Cider mills	: Evaporators :	Canneries	Total
Ontario		000 bushels (net)		
1937	2,604	1,167	1,612	5,383
1938	1,305	347	798	2,450
1939	2,912	1,153	2,190	6,255
1940	1,131	166	1,545	2,842
1941	2,274	465	2,807	5,546
1942	2,046	945	2,942	5,933
1943	1,669	440	2,135	4,244
Mid-western	<b>-,</b> ,		-,,	17,44
1937	324	88	200	612
1938	236	21	44	301
1939	392	20	141	553
1940	223	15	77	315
1941	265	32	111	408
1942	274	114	112	500
1943	138	22	70	
Hudson	I)O	2	70	230
AND REAL PROPERTY AND ADDRESS OF THE PERSON	EE)			EEI
1937	554 300	-	-	554
1938	390	_	•••	390
1939	467	-	-	467
1940	289	dab	•	289
1941	336	-	-	336
1942	455		***	455
1943	276	ana	600	276
Champlain				
1937	14	•••	diph	14
1938	11	•••	-	11
1939	15		-	15
1940	14	_	-	14
1941	2.2			22
1942	13	_	-	13
1943	7	comp	_	7
Other				
1937	938	′ 30	61	1,029
1938	680	, 6	24 .	710
1939	987	34	51	1,072
1940	652	18	65	735
1941	872	l₊O	104	1,016
1942	791	41	154	986
1943	650	40	162	852
State Total		, -		
1937	4,434	1,285	1,873	7,592
1938	2,622	374	866	3,862
1939	4,773	1,207	2,382	8,362
1940	2,309	199	1,687	4,195
1941	3,769	537	3,022	7,328
1942	3,579	1,100	3,208	7,887
1943	2.740	502	2,367	5,609

<sup>1/</sup> The counties in the various districts are given in Footnote 8, page 6

Table 3.- Cider made, by districts, crops of 1937-43 1/

District	: Cider mills	: Evaporators :	Canneries	: Total
Ontario		1,000 gallons		
1937	11,619		354	11,973
1938	5,617	_	146	5,763
1939	12,758	-	1,707	14,465
1940	4,885	-	628	5,513
1941	10,958	_	412	11,370
1942	10,547	_	31.2	10,859
1943	8,093	_	1,347	9,440
Mid-western	0,077		<b>→9</b> 241	/ <b>3</b> - μ- ψ ·
1937	1,534	***	_	1,534
1938	896	<u>_</u>		896
1939	1,674		_	1,674
	867		_	867
1940		<b>**</b>	_	
1941	1,069	•	_	1,069
1942	1,128	-	_	1,128
1943	541	-	-	541
Hudson				2 010
1937	1,947	•••	-	1,947
1938	1,412		-	1,412
1939	1,671	-	-	1,671
1940	1,020	-	-	1,020
1941	1,134			1,134
1942	1,652	-	-	1,652
1943	984	-	-	984
Champlain				
1937	49	-	240	49.
1938	33		_	33
1939	40	-	-	40
1940	46	***		46
1941	68		_	68
1942	41	••	-	41
1943	23	_	-	23
Other	~)			~>
1937	3,345	_	-	3,345
1938	2,704		_	2,704
1939	3,807		_	3,807
1940	2,518		_	2,518
1941	2 116			3,416
	3,4 <b>1</b> 6			
1942	3,207			3,207
1943	2,650	-	-	2,650
State total	30.10		251	70 010
1937	18,494	-	354	18,848
1938	10,662	-	146	10,808
1939	19,950		1,707	21,657
1940	9,336	-	628	9,964
1941	16,645	-	412	17,057
1942	16,575	-	312	16,887
1943	12,291	-	1,347	13,638

<sup>1/</sup> See footnotes, Tables 1 and 2 for explanations.

Table 4.- "Apple juice", by districts, crops of 1940-43 1/

D:	ist	ric	t				Total			
					:	1940	: 1941	: 1942	: 1943	
							1,	,000 gallons		
Ontario .	٠	•	•	•	۰	1,929	1,991	1,868	2,138	
Mid-western	•	0	•	•	•	289	322	180	158	
Hudson .	•	•	•			305	268	826	221	
Champlain	0	۰	•	•	0	15	33	23	16	
Other	٠		•	•	0	822	1,007	788	-923	
State total	٥	•	•	o	0	3,360	3,621	3,685	3,456	

1/ See footnote, Tables 1 and 2 for explanations,

Table 5.- Yield of apple products from 100 pounds of fresh apples 1/

Product and district	: 1937	: 1938	: 1939	: 1940	: 1941	: 1942 :	1943
Cider from 100 pounds of	fresh a	pples,	gallons	:			
Ontario	7.6	7.3	7.2	7.5	7.4	7.4	7.6
Mid-western	7.0	7.1	6.9	7.0	7.0	7.1	7.0
Hudson	6.9	7.1	6.8	6.9	6.7	6.9	6.7
Champlain	6.3	6.5	7.0	7.2	6.6	6.8	6.4
Other	6.6	6.6	6.6	6.6	6.8	6.7	6.8
State average .	7.3	7.1	7.0	7.1	7.2	7.2	7.3

Dried apples from 100 pounds of fresh apples, pounds:
State average 12.2 12.6 12.5 11.9 12.4 12.3 12.2

Canned apples from 100 pounds of fresh apples, dozens No. 10 cans:
State average .88 .85 .83 .84 .81 .79 .81

Apple sauce from 100 pounds of fresh apples, cases of 24 No. 2 cans:

State average 2.59 2.61 2.60 2.60 2.51 2.59 2.60

If the quantity of product reported as manufactured from 100 pounds of fresh apples varied rather widely. The above figures are averages of reports received, except that for cider the state average is derived from the district averages by weighting by the quantity of apples received at cider mills in each district. If weighted by individual mills, the average yields would be somewhat higher, since in the large mills which handle a relatively large proportion of the cider apples, yields ranging from 8.0 to 9.7 gallons of cider per 100 pounds of apples were reported. See footnote, Table 2, for counties included in various districts.

Table 6.- Prices received for apples at manufacturing plants, by districts, crops of 1937-43 1/

District	: Cider mills	: Evaporators	: Canneries :	All	<del></del>
Ontario	· Order milits	Per 100 poun		Plant	
1937	\$.18	\$ . 33	\$.41	\$.28	•
1938	.23	.28	.57	•35	
1.939	.15	.27	.43	.27	
1940	.26			• <b>5</b> 3	
		.30	.74		
1941	. 34	<i>°</i> 59	1.19	.81	
1942	.45	1.46	1.56	1.16	
1943	1.22	. 2.90	3.07	2.32	
Mid-western		2/	<b>~</b> 0	00	
1937	.24	. 26	.52	•33	
1938	.27	.25	. 67	.33	1
1939	.19	. 20	.46	.26	
1940	.26	.25	. <b>7</b> 7	•39	
1941	。34	<i>.</i> 52	1.16	.58	,
1942	.42	1.42	1.74	. 94	
1943	. 97	2.25	3.10	1.74	
Hudson					
1937	。25	-	_	.25	
1938	.26	-	-	.26	
1939	. 24	-	-	. 24	
1940	. 34	-	•••	.34	
1941	.38	_		.38	
1942	.40	-	_	.40	
1943	398	_	_	.98	
Champlain	3 /0			.,0	
1937	°21	_	_	.21	
1938	.46		_	.46	•
1939				.19	
	_				
1940	.30	-	_	.30	
1941	. 26	-	-	.26	
1942	.31	7	-	.31	
1943	。98	-	-	. 98	
Other	22		~~	07	
1937	.29	.40	.52	.31	•
1938	۰ <b>3</b> 3	.20	.80	• 34	
1939	。25	,18	• 55	.26	
1940	•33	. 25	. 94	.36	
1941 .	。34	ه 35	1.26	e 5+7+	
1942	٠45	1.50	2.02	.74	
1943	。99	2.75	3.72	1.59	
State average					
1937	.22	٠33	.43	.29	•
1938	.26	. 28	.58	.34	
1939	.18	.27	.43	.26	
1940(revis		،29	.75	.47	
1941	.34	•57	1.19	.72	
1942	.44	1.46	1.59	1.05	4
1943	1.13	2.86	3.12	2.12	
	tes, Tables 1 a			~ ~ ~~	
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